

FOLIO

University of Alberta

17 September 1987

Our 80th Year Begins So Much to do, so Little Time



First, you find a place to stay . . . then . . . you find a place to eat . . .



. . . and then you get (safely) to class.

Are you in one of these photos? Call us at 432-2325 and we'll mail you a couple of complimentary copies, courtesy of *Folio*, the University of Alberta's weekly staff bulletin. □

Contents

- Wheelchair access improved
- Extension's birthday bash
- 'Currents'
- Poster exhibit causes double takes



Blakeney to Speak Here on Canada's Future Options

Allan Blakeney is keynote speaker at the opening of a major conference on Canada's options for the future, being held on campus next month.

The Saskatchewan New Democrat Opposition leader joins a score of distinguished speakers for "Canada, the World and the Future" (14 to 17 October).

Topics under discussion at the conference include Canada's future as a political entity, our

responsibilities for world hunger and poverty, mandatory retirement and a session headlined "Who Rules Canada: Judges or Politicians?" Speakers at this session include Lou Hyndman, former Alberta provincial treasurer, Don Johnston, former Liberal minister of economic development and technology, and Roy Romanow, former Saskatchewan attorney general.

Continued on page two

Board of Governors

The University's enrolment seems destined to rise by about 800 students.

In his report to the 11 September meeting of the Board of Governors, Myer Horowitz said increases of 138 percent and 143 percent had been reported in some classes. Funding to handle these increases is not available but the University will continue its lobbying efforts in the hope that they will have some effect on next year's budget, the President said.

The Board approved Faculté Saint-Jean's proposal for four-year BA and BSc degree programs, as well as a proposal for diploma programs in immersion education and francophone education. The first move aligns the Faculté's programs with the four-year BA and BSc programs offered by the Faculties of Arts and Science. Students entering Faculté Saint-Jean's four-year BSc program will have to complete a large portion of their senior courses in English in the Faculty of Science.

The diploma programs, whose existence hinges on the availability of an appropriate level of funding, are intended for teachers who want to improve their competency in the French language and native-language French speakers from outside Alberta who are unfamiliar with programs, resources and methods related to teaching in immersion programs or minority language settings.

Consent was also given for the establishment of a Department of Clinical Psychology in the Faculty of Arts if an appropriate level of funding is available. There is no PhD program in clinical psychology in Alberta and, as of 1990, clinical psychologists in the province seeking a first-time certification must hold a PhD. The proposal calls for the setting up of MA and PhD programs.

The program to supply and install Hyperbus and Hyperchannel communications systems in various buildings on campus continues. The Governors allocated funding not to exceed \$1,371,735 for the next phase of the Local Area Network.

On an aesthetic note, Dr. Horowitz called the Norman Yates mural on the north wall of Education North "an exciting addition to the campus," and Bonnie Kerr, who was given a preview of the renovated Arts Building and Senate Chamber therein, said the edifice is "absolutely beautiful" and will be "a great credit to the University." □

Fraser W. Birss, 1932 - 1987

Fraser William Birss, Professor of Chemistry, passed away suddenly on 1 September 1987. His death is a great loss for family, many friends, the University and the scientific community.

Fraser Birss was born on 9 December 1932 near Limerick, Saskatchewan, and grew up in Saskatchewan. He received a BA degree in Honors Chemistry from the University of Saskatchewan in 1953 and the MA degree in 1954. In 1956, he received the DPhil degree from Oxford University, working with Cyril Hinshelwood on problems in chemical kinetics. In 1956-58, he carried on postdoctoral studies in theoretical chemistry which formed his major research area. After a year as a postdoctoral fellow at the University of Rochester, he joined the University of Alberta in 1959 as Assistant Professor in the young and growing Chemistry Department headed by H.E. Gunning. He was promoted to Associate Professor in 1963 and to Professor in 1969.

Dr. Birss had a wide variety of research interests within theoretical chemistry, centred on the application of quantum theory to fundamental mechanics of electronic, vibrational and rotational motions in molecules and the interactions among them. Around 1970, he began a long and fruitful collaboration with the high-resolution spectroscopy group associated with D.A. Ramsay at the National Research Council Laboratory, in which his theoretical interests and mastery of computational methods were combined in novel and powerful analyses of detailed fine structure in the electronic spectra of polyatomic molecules; his work on these problems won an international reputation.

Fraser Birss was a dedicated and gifted teacher, giving generously of his time and effort in the encouragement and development of students as scholars and as individuals. He had a major role in upgrading the content of the curriculum in general chemistry here in the 1960s, especially in the laboratory and seminar instruction programs, and developed material for introducing quantum theoretical concepts in general chemistry instruction. He had an ability to encourage students to learn, with an open interactive style of teaching which was appreciated not only by those who were students formally but by many colleagues who discussed research ideas with him. In 1984, his

excellence as an educator was honored in the Union Carbide Award by the Chemical Institute of Canada.

He had an important part in the development of facilities and services for applications of digital machines to scientific computing at the University of Alberta. The Department of Chemistry was from earliest times until about 1978 the largest single user of computing power on campus and Dr. Birss had a key role, if one often behind the scenes, in gathering support for University facilities and staff able to serve the rapidly growing needs of researchers for efficient computing.

He served the academic and professional communities by acting as member of the Rhodes Scholarship Selection Committee for Western Canada for about ten years and secretary (1969 to 1973), and was a member of the advisory editorial boards for the *International Journal of Quantum Chemistry* and the *Canadian Journal of Chemistry* for a number of years.

Fraser Birss met his wife-to-be, Agnes Epp, in Saskatchewan during student days and they were married in England in 1957. He is survived by his wife, two sons, Ernst and Peter, and a daughter, Elizabeth Cunningham, of Edmonton.

Those who knew him well as both professional colleague and personal friend will remember Fraser Birss as a person who cared a great deal for the truth and kept faith with the highest human and academic ideals; a colleague whose perceptive judgment about all sorts of matters was always valuable; a thoughtful scholar and co-worker, with whom it was possible to share the enjoyment of ideas and to "try out" those still taking shape in our minds; and a fellow human being whose regard and courtesy to others was genuine and with whom we could relax in the mutual trust of shared ideals and concerns. He will be missed very much. □

Continued from page one

Images of childhood will be the theme of a special conference show called "Growing Up Canadian, Coast to Coast" (16 October, 7:30 p.m., in 2-115 Education North). Admission to this event is by ticket only, available by calling in person at the Department of Drama, located in 3-146 Fine Arts Building. "Canada, the World and the Future" is free, open to the general public, University staff and students. □

Competition for Canadian Rhodes Scholarships Under Way

Eleven Rhodes Scholarships will be awarded to Canadians this fall. They will entitle the winners to study at Oxford University in England for two and possibly three years commencing in September 1988. The value of each scholarship is approximately £10,000 per annum. Applications for the 1988 awards may be made until 23 October 1987.

Rhodes Scholars will find unique opportunities for general undergraduate studies and for advanced work in both the humanities and the sciences. The present stipend is sufficient to pay all expenses and to enable the Scholar to take advantage of excellent opportunities for travel in Britain and on the Continent of Europe during the three lengthy vacations of the Oxford academic year.

Canadians, preferably in their third or fourth year of university work, who are unmarried and between 18 and 24 years of age, are eligible for the scholarships. Application forms and particulars

may be obtained from university registrars or from the secretary in each province. The secretaries of selection committees can also provide applicants with lists of former Rhodes Scholars resident in their respective provinces from whom information about the scholarships and about Oxford can be obtained (the Secretary of the Alberta Committee is D.P. Jones, Faculty of Law, University of Alberta, 432-5568).

Applicants for the Rhodes Scholarships are not required to write an examination. Selection is made by provincial committees after personal interviews and on the basis of the candidate's record. Although scholastic ability is of importance, such factors as character, qualities of leadership and interest in outdoor sports, are carefully considered. Some definite quality of distinction, whether in intellect or character or a combination of these, is the essential requirement.

More than 600 Canadians have now held Rhodes Scholarships. □

FOLIO

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correspondence should be
directed to:*
Ron Thomas
Editor

Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.



**University
of
Alberta**

Deadline

Notices of coming events: 9 a.m. three weeks in advance of desired publication date.

Classified advertisements: 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50.

Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

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Wheeling Around Campus: How Secure do You Feel?

Folio asked Jim Vargo and Benita Fifield (Occupational Therapy) for their comments.

"Places that are accessible are safer," says Dr. Vargo, whose wheels take him to work daily on the second floor of Corbett Hall. Top of his list of concerns is alternative evacuation procedures in the event of fire.

Glenrose Hospital has a mattress system, he explains: each non-walking patient can count on two ambulatory buddies, to carry her out.

Mattresses for campus? "Perhaps portable phones," says Vargo. But whatever method is used, "clear lines of responsibility are needed" so people in wheelchairs know where the help's coming from.

Fire is a threat familiar to Benita Fifield, Vargo's colleague in Occupational Therapy: visiting Boston a few years ago, she and her husband were awakened three times by fire alarms. Their hotel room, "modified for the disabled" had no evacuation procedures posted.

"By the third alarm, we just sat and watched the fire trucks," says Mrs. Fifield, whose husband uses a wheelchair to get around.

"I've been in a lot of 'handicapped rooms' in hotels," she says, with soft irony. Only one—the Tara in London's Kensington district—truly offered the security a traveller expects, right down to a bedside emergency button.

Things like security peepholes on doors are great, she says. But there's not much point to them if they're at standing-height eye level, and you can't stand alone.

The good news, about this campus and its wheeled population?

"Wheelchair access is fantastic now," says Vargo, tipping his hat to Physical Plant Director Gordon Bulat for efforts that have increased the number of chair ramps, marked them clearly, and designated special parking stalls close to building entrances. □

Next week: Marion Nicely, walking campus with a stick.

SSHRC Records Good Win-Loss Record in 1986-87

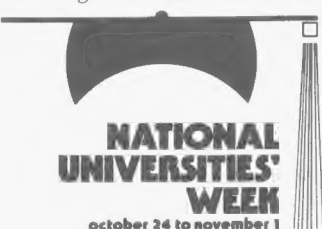
The Social Sciences and Humanities Research Council (SSHRC) awarded \$64.4 million in grants and fellowships in 1986-87.

In his annual address, president William E. Taylor described the two major challenges facing the Council in 1986-87: to implement the government's new matching funds policy, and to cut operating costs. The Council's response to the matching funds scheme was the establishment of the highly successful Canada Research Fellowships program. The second challenge was also successfully met: the operating cost per applications handled per person-year has been increased by 45 percent. This arose out of an increase of 33 percent in applications received and staff reductions in the order of nine percent over the last five years. An additional \$600,000 reduction in operating costs was transferred to the grants and fellowships budget with the approval of the Treasury Board.

On the downside, the Council announced, with regret, its decision to cancel the Strategic

Population Aging program, the Special MA Scholarships, and two small International Relations programs—Grants for International Collaborative Research and Bilateral Exchanges.

In 1986-87, SSHRC again funded 81 learned societies, and provided the principal funding for the Canadian Federation for the Humanities, the Social Science Federation of Canada and the annual meeting of the learned societies. More than 1,000 new and continuing grants were awarded through the research grants and strategic grants programs; in addition, a total of 1,467 fellowships were offered. Research conferences were also funded, and block grants were awarded to academic publishers and to small and large Canadian universities. □



Review of Writing Competence Policies

The Office of the Vice-President (Academic) is committed to providing a review of the University's existing writing competence policies, and to making recommendations to General Faculties Council by December 1987.

If you have any information, comments, or suggestions regarding this matter, please forward them (in writing!) before 16 October 1987 to:

Dr. Amy Zelmer, Associate Vice-President (Academic)
3-2 University Hall

Correction

Two out of three ain't bad sometimes, but when you're listing speakers, titles and dates for a public symposium (*Folio*, 10 September, page 4) it just won't do.

These are the correct dates for the lectures to be given at the symposium sponsored by the Theoretical Physics Institute and the Department of Physics in celebration of Isaac Newton's *Principia Mathematica*:

17 September (Kip S. Thorne, California Institute of Technology, "Gravitational Waves: A New Window Onto the Universe").
22 September (Michael S. Turner, University of Chicago, "The

Earliest History of the Universe").
24 September (J.R. Bond, University of Toronto, "In the Beginning: Invisible Matter and the Birth of Galaxies").

15 October (W. Israel, University of Alberta, "Black Holes: Story of a Revolutionary Idea").

22 October (S. Chandrasekhar, University of Chicago, "The Intellectual Achievement that the *Principia* is").

All lectures will be delivered at 4 p.m. in 126 Physics with the exception of Professor Turner's which will be presented in TL-12 Tory Building.

For additional information, telephone 432-5507. □

University of Alberta
Edmonton



*Dr. Raymond U. Lemieux,
F.R.S. University Professor*

THE RAYMOND U. LEMIEUX
LECTURES ON BIOTECHNOLOGY

Inaugural Lecture

**"Development of
Biotechnological
Products as Therapeutics"**

Dr. T.L. Nagabhushan

*Vice-President Biotechnology,
Schering-Plough Corporation,
Bloomfield, New Jersey*

**4:00 p.m. Wednesday,
23 September 1987**

Room HCL-1 Humanities Centre
University of Alberta

Dr. Nagabhushan's research on antibiotics and interferon has led to two new commercial drugs. He heads research in cardiovascular and central nervous system chemistry and is working on new products for the treatment of infectious diseases and cancer.

*To honour
Dr. Lemieux for
his contribution
to Alberta's
biotechnology
industry.*

Sponsored by the
Vice-President
(Research) and
ChembioMed.

Extension Celebrating 75th Birthday With Open House

The Faculty of Extension will celebrate its 75th anniversary on Saturday, 26 September, with an open house from noon to 5 p.m. at Corbett Hall.

Visitors can take in historical displays and exhibits, a lawn party complete with magic shows, concerts, carnival booths and free balloons for the young and young at heart, and a student art exhibit in the Gallery Room.

What birthday party would be complete without a cake? Extension's dessert—1,500 pieces when the cutting is done—comes in the shape of Corbett Hall. The first cut will be

made at 3:15 p.m. on the front lawn. The main course, an address by External Affairs Minister (and University of Alberta alumnus Joe Clark), will be served at 2 p.m. in the Kaasa Theatre, Jubilee Auditorium.

The three-fold mandate of the University is "teaching, research and community service" and Extension has chosen "Celebrating 75 Years of Community Service" as its anniversary theme. The Department of Extension was established in 1912, and the education of rural residents was the first concern. Staff took Extension's 'product' to isolated

communities via horse and wagon, "magic lantern" slide shows informed and entertained standing room only crowds in rustic schoolhouses, art exhibits were set up in hamlets and villages and attracted hundreds of people, and the materials loaned by the Extension Library (it was created in 1915) were explored and savored.

In 1933, the department saw the need for a province-wide arts program, stated its case eloquently, and received a five-year, \$50,000 grant from the Carnegie Corporation. This seed money was used to create the Banff School of Theatre, the forerunner of the internationally-acclaimed Banff School (the School became autonomous in 1957).

Over the years, the Faculty has made thousands of films, books, periodicals and audio-visual materials available to the public through Educational Media Services, the Adult Student Centre, the Women's Program Resource Centre and the Legal Resource Centre.

Extension survived two world wars and the depression, and grew when the economy boomed. The Faculty now serves more than 30,000 people annually.

Today, the Faculty's 24 programming areas offer 2,000 courses, workshops and seminars through spring and summer credit courses, professional certificate

programs and general interest courses. In addition to the wide range of offerings, Extension is continually anticipating the future needs of today's graduates (studies have shown that they are likely to go through several career changes in their lifetime) and providing opportunities for part-time studies designed to meet these needs. As well, career counselling is high on the list of priorities.

Happy birthday!□

Her Excellency

Jeanne Sauvé

*Governor-General
of Canada*

will present the
Henry Marshall
Tory Lecture
"The Impact of Youth
on Our Society"

September 18, 1987
Friday, 8 p.m.

SUB Theatre

*Everyone is welcome
Sponsored by
the Friends of the
University*



Activities

The University of Alberta will be well represented at "Every Family is a Working Family," a two-day conference at which thoughts and ideas about

Canadian families will be shared. **Doris Badir** (Equity Adviser, Office of the President) and **Albert Einsiedel** (Local Government Studies Program) will each chair a session, and **Dianne Kieren** (Home Economics), **Norah Keating** (Home Economics), **Christine Davies** (Law) and **Brian McDonald** (Academic Administration) will serve as resource persons. The conference runs Friday and Saturday (18 and 19 September) at Lister Hall . . . Graduate Students' Association President **Annette Richardson** has been selected for inclusion in "The International Directory of Distinguished Leadership, Second Edition" . . . **Helmut Brauss** (Music) is back from a concert tour of Japan, China and Hong Kong. He presented two solo recitals in Sapporo and Xi'an and three joint recitals with mezzo-soprano Kuniko Furuhashi in Kobe, Tokyo and Hong Kong. Professor Brauss also lectured on Beethoven (in Osaka and Kobe) and Bartók (in Xi'an), and held a number of masterclasses in Tokyo, Sapporo, Kamakura and Xi'an. . . Three BEd students from Faculté Saint-Jean have been honored for academic achievement. **Kathlyn Haugen** was awarded the Peter Loughheed Scholarship, the most prestigious award offered by the University of Alberta, **Rita Hébert** was awarded the Louise McKinney Post-Secondary Scholarship, and **Lorelei Hironaka** received the Médaille d'or des Pères Oblats.

'Encounters' Series Returns for Third Season

The Department of Music's third annual "Encounters" series opens Sunday, 20 September, at 8 p.m. in Convocation Hall.

Featured works are Maurice Ravel's "Introduction and Allegro," Nino Rota's "Sarabande and Toccata," Malcolm Forsyth's "Three

Toccate per Pianoforte," and Brahms' "Piano Quartet in A major."

"The Introduction and Allegro" will be performed by Nora Bumanis, harp; Shelley Younge, flute; Dennis Prime, clarinet; Norman Nelson and Patricia Armstrong, violins; Michael Bowie, viola; and Tanya Prochazka, cello.

Rota, who wrote scores for a number of Federico Fellini's films, composed "Sarabande and Toccata" in 1945. At "Encounters," it will be interpreted by Nora Bumanis.

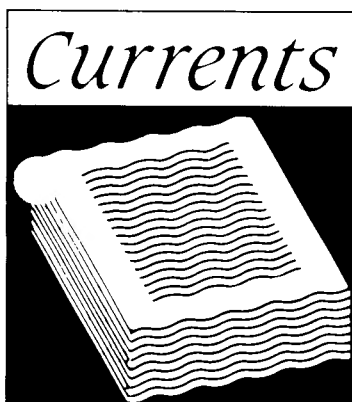
"Three Toccate per Pianoforte," commissioned by the CBC, were recently completed by Professor Forsyth while on leave in Italy. The première performance honors re with Helmut Brauss.

For the closing portion of the program, Professor Brauss will team with Messrs. Nelson and Bowie and Ms. Prochazka.

Admission is \$5 (\$2 discount for students and seniors). Tickets are available at 3-82 Fine Arts Building and at the door.□

Successful Final PhD Oral Examinations

Name	Department	Final Thesis Title
Brian Edmund Forrest	Mathematics	"Amenability and Ideals in the Fourier Algebra of a Locally Compact Group"
Marj Holmgren	Educational Psychology	"Women's Experience of Depression"
Niwatra (Wannasatit) Klainatorn	Elementary Education	"Children's Perceptions of Schooling in Two Kindergarten Settings"
John E. Lawrence	Educational Psychology	"Second Order Cybernetics and the Psychotherapy Process"
Milan Theodore Makale	Zoology	"Acute Radiation Hypotension in the Rabbit: A Model for the Human Radiation Shock Syndrome"
Saad Asad Masri	Plant Science	"Isolation and Characterization of Tobacco Stunt Virus"
Karo Michaelian	Physics	"Polarized Proton-Proton Bremsstrahlung"
Raymond A. Tomcej	Chemical Engineering	"Mass Transfer with Chemical Reaction in Alkanolamine Treating Units"



Testing and Remediation Moves to SUB

Effective 16 September, the new address for Testing and Remediation is: 302 Students' Union Building. Telephone: 432-2682.

Boreal Institute Schedules Open House

The Boreal Institute for Northern Studies is hosting an open house on 30 September from 11 a.m. to 2 p.m. in CW 410, Biological Sciences Building.

Study Leave

Academic staff are reminded that, in accordance with the Faculty Agreement, applications for 1988-89 study leave should be submitted, through Department Chairmen to deans, no later than 15 October 1987. Application forms are available in Faculty offices or from the Office of the Vice-President (Academic).

Curlers Sought

The University of Alberta Faculty Curling League is once again looking for interested teams and/or individuals for its 1987-88 season. Draws are held at the Shamrock Curling Club at 5 p.m. on Monday evenings beginning 19 October. There is no restriction as to the composition of each team. The fee of \$100 covers rink fees for approximately 20 games.

Interested individuals should contact Brian MacPherson, Department of Anatomy and Cell Biology, 5-14 Medical Sciences Building, or phone 432-3356.

Faculty Women's Club Outing

The Faculty Womens' Club has arranged a trip to the Devonian Botanic Garden on Monday, 28 September. A tour of the Garden will be followed by lunch at the Westridge Park Lodge. The bus will leave Heritage Mall at 10 a.m. and return by 3 p.m. For further information and to sign up (\$14), call 483-1968 or 436-3833.

GO Club Opens on Campus

The University of Alberta GO Club will meet Wednesday evenings in 142 SUB. The club offers beginner and intermediate instruction as well as informal play. University staff and graduate and undergraduate students are invited to join. 432-2259 (Dave).

Extension Courses Brochure

The fall brochure for the Extension Faculty's Applied Behavioral Sciences program of courses, workshops and seminars is available by calling 432-5069.

Music Resources Centre Beats Drums for Moses and Frances Asch Collection

The University of Alberta and the Smithsonian Institution in Washington, D.C. are now beneficiaries of the generosity of Moses Asch and family.

Few have recorded the human voice as extensively as the late Mr. Asch, founder of Folkways Records, the world's largest commercially available collection of folk and tribal music.

He died last fall aged 81, a sound engineer par excellence who believed passionately in his historical role, saving for others what Alan Lomax called vox humana: the voice of the world. Attica's inmates, Scottish anti-nuclear songs, New York teen gangs, the dancing workers of Kenya: Folkways recorded them, and thousands more.

This past spring the Smithsonian bought the Folkways label and its 2,200 recordings, agreeing to make them available—as Mr. Asch had—in perpetuity.

Despite the Smithsonian deal, "it's business as usual for Folkways," says Michael Asch, Moses's only child, a Professor of Anthropology at the University of Alberta. "Orders for records will still be handled through the company's New York business premises on lower Broadway."

Michael Asch is no stranger to his dad's business. In the Sixties, he produced for the label's ethnic music series before taking up a teaching assistantship at Columbia under Margaret Mead. In 1973, two years after moving to Edmonton, he edited Folkways' anthology of North American Indian and Inuit music.

Last November, the University of Alberta's Music Resources Centre received its own 2,200-record Folkways set, donated as the Moses and Frances Asch Collection.

The Folkways name is not unnaturally associated with the folk "greats" it recorded: Pete Seeger, Woody Guthrie, Leadbelly and Bob "Blind Boy Grunt" Dylan. But its classical music contributions are significant too. (For 25 years now, University of Alberta piano literature students have been able to hear Canadian pianist John Newmark playing an 1810 piano, thanks to a Folkways recording made many years before the current trend to original instrumentation recordings.)

"This is a collection for the whole University, not just the Music Department," says Jim Whittle, the

centre's librarian. For instance, Folkways Americana series—including the Watergate testimonies, Lee Harvey Oswald's letters to his mother, and an interview with Alfred (The Genius Brush Salesman) Fuller—has "a lot of interest for historians," he says.

The Moses and Frances Asch Collection is part of the reference

library of sound recordings located in the centre, a library which serves the teaching and research needs of the campus and other arts and educational organizations in Alberta's capital.*□

**Reprinted from Q and A, published by the University's Office of Public Affairs.*

How do You Like Your Staeck, Folks?

The new poster exhibit in the walkway between Rutherford Library and HUB is turning heads around.

"It is a powerful show," says Jim Corrigan (University Collections), of the Klaus Staeck poster series.

Staeck, a lawyer and self-taught artist, describes his ironic political posters as "made for the streets." In one, U.S. President Reagan has a bomb for a head. Another suggests voting Conservative "for

wider roads" and shows a Rolls Royce in a grimy British working class street.

"I have chosen irony," says Staeck, "because the acridity and dullness that characterize most political discussion arouses fear."

Staeck's work is on loan through the Goethe Institute, the German equivalent of the Canada Council. It will be on campus until early next year.□

Talks

Theoretical Physics Institute and Department of Physics

17 September, 4 p.m. Kip S. Thorne, California Institute of Technology, "Gravitational Waves: A New Window Onto the Universe." P126, Avadh Bhatia Physics Laboratory.

22 September, 4 p.m. Michael S. Turner, University of Chicago, "The Earliest History of the Universe." L-12 Tory Building.

24 September, 4 p.m. J.R. Bond, University of Toronto, "In the Beginning: Invisible Matter and the Birth of Galaxies." P126, Avadh Bhatia Physics Laboratory.

Zoology

18 September, 10:30 a.m. Trace A. Marchant, "The Hypothalamic Regulation of Growth Hormone Secretion in the Goldfish, *Carassius auratus* L." CW410 Biological Sciences Centre.

Sociology

18 September, 2:30 p.m. Evelyn Lapierre-Adamcyk, Department of Demography, University of Montreal, "Canadian Fertility and Fecundity." 6-21 Tory Building.

Economics

18 September, 3 p.m. B. Dahlby, "A Test

of the Sheshinski-Weiss Model of Price Adjustment." 8-22 Tory Building.

25 September, 3 p.m. B. Copeland, University of British Columbia, "Infant Industries, Direct Investment and Asymmetric Information on Capital Markets." 8-22 Tory Building.

Women's Program and Resource Centre

20 September, 11 a.m. Potluck brunch and chat with Margrit Eichler, feminist sociologist. Discussion will focus on learning opportunities for women. 11019 90 Avenue. Co-sponsor: Canadian Congress of Learning Opportunities for Women.

Rural Economy

21 September, 3:15 p.m. Grant Milne, Chief, Policy Planning and Economics, Canadian Forestry Service, "Perspectives on European Forestry." 519 General Services Building.

23 September, 3:15 p.m. Peter Trelawny, Economist, Agriculture Canada, "The Possible Effects of Biotechnology on the Canadian Dairy Industry: A Case of Bovine Stomatotropin (Growth Hormone)." 519 General Services Building.

English

Thomas McAlindon, University of Hull, England, will deliver a series of lectures

titled "Shakespeare's Tragic Cosmos," as follows:
21 September, 4 p.m. "Kind and Kind—King Lear."
23 September, 4 p.m. "'Double, double'—Macbeth."
24 September, 3:30 p.m. "'Half to half the world opposed'—Antony and Cleopatra." All lectures in L-3 Humanities Centre.

Real Estate - Extension

21 September, 7:30 p.m. Three guest speakers on the topic "Enhance Your Home with Color, Manage Home Renovation Projects, and Make the Best of Your Living Space." B-2 Tory Lecture Theatre.

St. Stephen's College

21 September, 8 p.m. Oden Marichal, President, Theological Seminary, Matanzas, Cuba, "Church and State in Cuba Today." L-1 Humanities Centre.

Computing Science

23 September, 3 p.m. Ahmed Kamal, "Semi-synchronous ALOHA." 619 General Services Building.

E.L. Empey Lectureship in Home Economics

23 September, 7:30 p.m. William L. Rathje, Department of Anthropology, University of Arizona, Tucson, "The Garbage Decade." L-1 Humanities Centre. Tickets: \$5—adults; \$2—students. 432-3028.

Chemical Engineering

24 September, 3:30 p.m. David Clarke, EFF Distinguished Visitor, "Funding Control and Instrumentation Research in the U.K." E346 Chemical-Mineral Engineering Building.

Women's Program - Extension

25 September, 7:30 p.m. "Prairie Women"—a documentary film about farm women and cooperative action: 1912-1939. 2-115 Education North.

Extension

26 September, 2 p.m. External Affairs Minister Joe Clark will deliver the keynote address as part of the Faculty's 75th anniversary celebrations. Kaasa Theatre, Jubilee Auditorium.

Forest Science

30 September, noon. Stephen J. Titus, "The Forest Mensuration and Biometrics Computer Interface." Training Room, 3rd Floor, General Services Building.

The Arts

**Exhibitions
FAB Gallery**

Until 20 September. "Dreams and Spirits"—printmaking by Anne McMillan. 1-1 Fine Arts Building.

Ring House Gallery

Until 4 October. "Structured Paradise: A National Park Experience"—a photographic documentation examining

Banff National Park in 1985, the year of its centenary.

**McMullen Gallery
Mackenzie Health
Sciences Centre**

Until 31 October. "In Touch With Abstract Art"—an opportunity to experience the tactile side of contemporary, abstract art.

**Bruce Peel
Special Collections
Library**

Until 27 November. "Great Scott! The Literary World of Sir Walter Scott." First and early editions of Scott's poems and novels with those of his predecessors and contemporaries, accompanied by Scott's lively comments upon them. 8:30 a.m. to 4:30 p.m. Monday-Friday (closed weekends). B7 Rutherford South.

Music

20 September, 8 p.m. Encounters Concert Series. Tickets: \$3—students/seniors; \$5—adults; available from the Department of Music. Convocation Hall.
27 September, 8 p.m. Fordyce Pier will present a concert of music for trumpet. Convocation Hall.

SUB Theatre

18 September. The Friends of the University of Alberta present the Henry Marshall Tory Lecture. Speaker: The Right Honorable Jeanne Sauvé, Governor-General of Canada. 439-1907.
19 September, 8 p.m. "Star Trek IV."
20 September, 8 p.m. "The Secret of My Success."
23 September, 7:30 p.m. The China Folk and Dance Ensemble. 424-8124.
25 September, 8 p.m. "The Witches of Eastwick."
26 September, 11 a.m. U of A Alumni Association, "Alumni Travel Program '88" preview. 432-3224.

Positions

The University of Alberta is an equal opportunity employer.
In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Academic

**Administrative
Professional Officer,
Department of English**

The Department of English invites applications for the position of Administrative Professional Officer to replace the present APO who will be on leave for the period 1 January to 30 June 1988. English is one of the largest departments on campus and has one APO position.
Reporting directly to the Chairman, the Administrative Professional Officer is responsible for budgeting, personnel management, space, timetabling and student registration and acts as resource person on administrative matters.
Qualified applicants will have administrative experience at the departmental level at this University. The minimum salary will be \$2,500/month.
Applications, including curriculum vitae and the names of three referees, should

be addressed to: Chairman, Department of English, 3-5 Humanities Centre. Deadline for the receipt of applications is 25 September 1987.

**Part-Time Temporary
Instructional Assistant,
Hebrew Language**

This appointment will be made only if enrolments justify it and depending on available funds. The work will begin in mid-September and last through 30 April 1988; from 4 to 8 hours per week assistance in marking, conversational classes and computer-assisted instruction will be required. Minimum remuneration \$9.50 per hour, or more if experience and qualifications warrant it. Appointee must have native fluency in Hebrew and should have relevant qualifications and teaching experience.
Written applications with curriculum vitae to Dr. T.M.S. Priestly, Chairman, Department of Religious Studies, University of Alberta, Edmonton, Alberta T6G 2E5, by 22 September 1987.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 11 September. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Library Clerk III, Faculté Saint-Jean, (\$1,366-\$1,716)
Clerk Typist III, Faculty of Extension (Business and Professional), (\$1,366-\$1,716)
Clerk Steno III (Part-time, Trust), Surgery, (\$683-\$858)
Secretary (Part-time, Trust), Applied Sciences in Medicine (\$761-\$973)
Secretary (Trust), Department of Medicine (Palliative Care), (\$1,522-\$1,945)
Secretary (Trust), Alberta International, (\$1,522-\$1,945)
Secretary (Trust), Electrical Engineering, (\$1,522-\$1,945)
Administrative Clerk, Pension and Benefits Administration, (\$1,522-\$1,945)
Administrative Clerk, Physics, (\$1,522-\$1,945)
Medical Steno (Term to one year), Department of Medicine (Nephrology), (\$1,522-\$1,945)
Departmental/Executive Secretary, University Secretariat, (\$1,716-\$2,208)
Office Services Senior Clerk, Agriculture and Forestry, (\$1,716-\$2,208)
Senior Accounts Clerk, Office of the Comptroller, (\$1,716-\$2,208)
Senior Technical Assistant (Term), Physics, (\$1,580-\$2,027)
Administrative Assistant I (Term), Extension, (Local Government Studies), (\$1,945-\$2,510)
Administrative Assistant I, Budget and Statistics, (\$1,945-\$2,510)
Administrative Assistant I, Anatomy and Cell Biology, (\$1,945-\$2,510)
Administrative Assistant I/II, Materials Management, (\$1,945-\$2,861)
Technologist I (Trust), Zoology, (\$1,945-\$2,510)
Programmer Analyst I, Physical Plant Administration, (\$1,945-\$2,510)
Technologist II (Textiles), Home Economics, (\$2,115-\$2,471)
Programmer Analyst II, Geography, (\$2,304-\$2,992)
Programmer Analyst III, Civil Engineering (\$2,741-\$3,579)

For vacant Library positions, telephone 432-3339.

Advertisements

Accommodations available

Rent - Riverbend executive home, furnished, 10 minutes from camp 2,700', four bedrooms, 2 1/2 bath., den, large living-dining area, kitchen. Available 1 January-31 July. \$1,080/month. 430-6196 or 441-4801.
Rent - Ermineskin, furnished bungalow. Three bedrooms, 1 1/2 baths, double garage. Fifteen minutes University. Available January 1988 or earlier to August 1988. References. \$750/month. 436-9591.
Rent - "Sabbatical house" for 3-6 months, starting November 1987. Easy access to University. 438-6436.
Sale - Large city lots. \$39,750-\$67,500. Buy now, build later. Financing available. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Sale - Bungalow. Immaculate, well-built. Super location. Close to Capilano Park and river valley. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Sale - \$39,500. University area. Two-bedroom condominium. Appliances. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Sale - Acreage. Not in subdivision. Cozy, 1,600' bungalow. West of city. For details, call Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Sale - Bungalow. Attractive. Neutral decor. Total five bedrooms. Only \$74,900. Chris Tenove, 433-5664, 436-5250.
Sale - Parkallen. New listing. Renovated, 1 1/2 storeys. Possible suite. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
Sale - Belgravia. Close to University Three-bedroom bungalow with ii suite. Lots of extras. \$109,900. Call Maureen Westlake, 437-1430. Century 21 Byron's Real Estate.
Rent - Apartment. Available 1 October. Home in south Garneau, 112 St. Main floor, finished basement. Large living room, open fireplace, dining room, kitchen. Parking. \$460 plus utilities. 433-5986.
Sale - Two storeys. 1,600', four bedrooms, sunken living room, feature fireplace, deck, private yard, 1 1/2 baths, master ensuite, attached garage, five appliances. University Avenue, asking \$135,000. 483-3463 (bus.), 432-7578 (res.).

Automobiles and others

Family shrank. Cars must follow. Good buy on any one of three, well-cared-for cars: 1980 Dodge St. Regis; 1981 Plymouth Granfury; 1981 Chevrolet Belair station wagon. 483-4863, 451-4318.

Goods for sale

For sale, good German viola, 15 1/2", suitable for student. \$550. Phone 435-9372 after 4 p.m.
Ladies, vintage fur coats. Super prices. All Seasons Flea Market. 99 St. 70 Ave. Saturday-Sunday 11 a.m.-4 p.m. Circa 1900. Eight-piece, walnut, dining room suite. Good condition. Chairs require upholstering. 454-3452.
Lowrey Genius Deluxe electronic organ. 38 upper and 9 harmony voices, rhythm cassettes providing 36 accompaniment sounds, retailing at \$4,900, selling for \$3,600. 435-1277.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.
Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment

costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Avenue. 436-8059.

Professional typing, \$1.20/page. Phone 435-3398.

Secretarial Service. Word processing, typing, electronic scanning, FAX service, laser printing, dicta-typing. Thesis special, \$18/hour (min. 75 pages). 432-0138.

Professional typist-word processing. Specializing in theses, dissertations, manuscripts. Gwen, 467-9064.

Word processing. Theses, papers. Pick-up and delivery included. 488-0547.

Complete drywall services, specializing in taping, old-fashioned plaster

ceilings. All work guaranteed. References. Stan, 479-6640 after 5 p.m. 459-5084.

Springhill Cooperative Nursery School. Register now. Located near University in Garneau School. Limited number of spaces in two- and four-year-old groups. Colleen Hohn, 436-5816, or Dinah Gray, 436-0903.

Wanted: Student to baby-sit two small girls. Monday, Tuesday or Thursday morning. Two blocks from University. Call 433-6294 evenings.

The Women's Society of the Edmonton Art Gallery is holding its membership tea Wednesday, 23 September, from noon until 3 p.m. at 5208 154 St. For information, call Louise Stewart, 434-1214.

L.E.A.P. *your way to a healthier you*

Do you need a structured exercise program? Do you want to learn the truth about exercise and nutrition facts and fallacies? If you answered yes to either of the above questions, then why not become a L.E.A.P. er and join the University of Alberta's Lifestyle & Exercise Awareness Program.

The program is devised to introduce people to a regular, progressive exercise program. For the registration fee of the class you will receive:

- a pre- and post-fitness appraisal (regular cost \$40.00 x2)
- nutrition counselling (regular cost \$40.00)
- educational information through films, hand-outs, mini lectures on fitness, nutrition and lifestyle
- an exercise class for 1 hour, 3 times per week for 10 weeks

Classes are limited to 8 people per class, so please register early to obtain your first choice for class time. Classes begin Monday, September 28, 1987. Class Times:

■ 12:00 - 1:00 pm	Level I	Monday/Wednesday/Friday
■ 4:45 - 6:00 pm	Level II	Monday/Wednesday/Friday
■ 7:30 - 8:30 pm	Level I	Monday/Wednesday/Thursday

Level I:

for those individuals starting into a regular fitness program.

Level II:

individuals who are regularly active 3 times per week *before* starting the class.

Cost:

\$170.00 for 10 weeks

Maintenance Class:

If you are a graduate of our program and you are interested in a Maintenance class, we will be offering a class on Tuesday/Thursday from 12:00 - 1:00 pm. Cost is \$80.00

To obtain more information and to register for the classes, please call The Fitness Unit at 432-4435.

ANTIQUE FURNITURE
SEPTEMBER
BLUE TAG SALE
SAVE UP TO 33%
20th Century Antiques
10309 - Whyte Ave. (upstairs)
433-9841

Cambridge Daycare

"Professional & Quality Care for your child"



- Babies to 6 Years
- Hot Lunch and 2 Snacks
- Subsidies Available
- Fully Equipped Nursery
- Fun Atmosphere

EDUCATIONAL PROGRAM

- Arts & Crafts
- Field Trips
- Adopt A Grandma & Grandpa Program
- After School Care

#200, 8414-109 Street

439-8819

Ensuring Alberta's Options

Share our pride in Alberta's new world-class facility for scientific, engineering and technological research. See the advancements we are making in such areas as fuels from coal, new natural pesticides, new building materials and new ideas for business and industry. This Sunday, bring the family and take a look at tomorrow!

Open House: Sunday,
September 27, 1987,
1:00 - 4:00 p.m.

Celebrating CANADIAN HIGH TECHNOLOGY WEEK '87

ALBERTA RESEARCH COUNCIL

250 Karl Clark Road,
Edmonton
(South on 99th Street,
adjacent to the Edmonton
Research Park.)



Homecoming '87

September 25-27

An invitation to all University of Alberta Faculty

Faculty members are invited to take part in the variety of activities taking place during Homecoming Weekend 1987. In particular, the opening reception on Friday evening provides an excellent opportunity to meet and mingle with former students and colleagues.

Homecoming Reception
Friday, September 25
Faculty Club
\$3 per person
Hosted wine bar
RSVP: 432-3224

For further information about Homecoming '87 activities or to purchase tickets, please contact the Office of Alumni Affairs, 430 Athabasca Hall, Telephone 432-3224.

Personnel Services and Staff Relations

Training and Development

	DATE	TIME	PLACE	COST
Supervising for good Performance				
"What you do as a supervisor has a direct impact on productivity, morale and organization. If our subordinates aren't doing their jobs you may not be doing yours."				
<ul style="list-style-type: none"> ■ the roles and responsibilities of supervision ■ how to give instructions effectively ■ how to delegate and keep control 	Oct. 21-22	9-4:30	VIP Room	\$35.00
	Dec. 9-10	9-4:30	MAP Room	\$35.00
	Jan. 13-14	9-4:30	VIP Room	\$35.00
	Feb. 16-17	9-4:30	VIP Room	\$35.00
	Apr. 28-29	9-4:30	VIP Room	\$35.00
<ul style="list-style-type: none"> ■ techniques of motivation ■ techniques of job design ■ how to conduct a performance appraisal ■ how to apply the Board/NASA contract. 				

LISTER HALL

Writing for Results

"The effects are immediate and the skill is indispensable."				
<ul style="list-style-type: none"> ■ learn to know what you want to say ■ learn to know why you want to say it ■ techniques for effective organization that gives your message impact ■ how to reach your audience ■ how to save your time and your reader's time ■ how to get results 	Oct. 14-15	9-4:30	VIP Room	\$95.00
	Nov. 12-13	9-4:30	VIP Room	\$95.00
	Jan. 18-19	9-4:30	VIP Room	\$95.00
	Mar. 17-18	9-4:30	VIP Room	\$95.00
	Note: This course is for persons who know how to write English and who wish to learn how to write more effectively and persuasively. This is NOT a remedial grammar and spelling course.			

Time Management

"If you don't have time for this course, you really need it."				
<ul style="list-style-type: none"> ■ how to establish your priorities ■ organizing your tasks through better scheduling ■ deflecting interruptions ■ controlling the telephones ■ controlling paperwork 	Nov. 25	9-12	VIP Room	\$15.00

Conducting Effective Meetings

"Meetings are indispensable when you don't want to do anything."				
J.K. Galbraith.				
<ul style="list-style-type: none"> ■ purposes of meetings; kinds of meetings ■ knowing your objective 	Nov. 10	9-12	VIP Room	\$15.00
	Feb. 5	9-12	VIP Room	\$15.00
<ul style="list-style-type: none"> ■ using an agenda ■ following up on action items ■ how to control from the chair 				

Stress Management

"Hey, relax."				
<ul style="list-style-type: none"> ■ how to identify your stress factors ■ techniques and practices to overcome stress 	Oct. 5	9-4:30	Alberta Room	\$45.00
	Nov. 16	9-4:30	VIP Room	\$45.00
	Dec. 4	9-4:30	VIP Room	\$45.00
	Jan. 15	9-4:30	VIP Room	\$45.00
	Feb. 12	9-4:30	VIP Room	\$45.00
	Mar. 11	9-4:30	VIP Room	\$45.00
	Apr. 8	9-4:30	VIP Room	\$45.00

Performance Appraisal

"A lot of people get yelled at for not doing what they didn't know they were supposed to do in the first place." — Ken Blanchard				
<ul style="list-style-type: none"> ■ how to establish performance goals ■ how to manage performance ■ how to avoid common errors in evaluating performance ■ how to conduct a performance interview 	Oct. 29	9-4:30	VIP Room	\$20.00
	Feb. 10	9-4:30	VIP Room	\$20.00
	Apr. 19	9-4:30	VIP Room	\$20.00
	May 11	9-4:30	MAP Room	\$20.00

To Register:

Call 4660, 8 am to 4:00 pm Fees: Send cheques, payable to University of Alberta to Joan Richards, 2-25 Assiniboia Hall University employees who occupy NASA Bargaining Unit positions may utilize the Human Resource Development Fund.

Refund Policy

If you would like a refund you must cancel no later than one week prior to course starting date.

Courses are available to any University of Alberta staff